

Claims

1. A multilayer stretch film comprising:
  - a cling layer,
  - a non-cling layer,
  - at least one core layer including linear low density polyethylene and low density polyethylene in an amount ranging from about 0.01% to about 3% by weight of the core layer.
2. The stretch film as claimed in claim 1, wherein the low density polyethylene of the at least one core layer is included in an amount less than 3% by weight of the core layer.
3. The stretch film as claimed in claim 1, wherein the stretch film has a gauge that is no greater than about 90 gauge.
4. The stretch film as claimed in claim 1, wherein the stretch film has a gauge that is no greater than about 80 gauge.  
*100 gauge, 1 min*
5. The stretch film as claimed in claim 1, wherein the stretch film has a gauge that ranges from about 50 gauge to about 80 gauge.
6. The stretch film as claimed in claim 1, wherein the linear low density polyethylene has a density ranging from about  $0.900 \text{ g/cm}^3$  to about  $0.940 \text{ g/cm}^3$  and a melt index of about  $2.0 \text{ g}/10 \text{ min}$  to about  $10.0 \text{ g}/10 \text{ min}$ .

7. The stretch film as claimed in claim 1, wherein the linear low density polyethylene is an ethylene copolymerized with a C<sub>3</sub>-C<sub>10</sub> α-olefin.

8. The stretch film as claimed in claim 1, wherein the low density polyethylene is an ethylene homopolymer.

9. The stretch film as claimed in claim 1, wherein the low density polyethylene is an ethylene copolymer.

10. The stretch film as claimed in claim 1, wherein the low density polyethylene is an ethylene copolymerized with at least one of the group consisting of vinyl acetate, methyl acrylate, ethyl acrylate and acrylic acid.

11. The stretch film as claimed in claim 1, wherein the low density polyethylene has a density of about 0.900 g/cm<sup>3</sup> to about 0.940 g/cm<sup>3</sup> and a melt index of 0.1 g/10 min to about 10.0 g/10 min.

12. The stretch film as claimed in claim 1, wherein the cling layer includes ultra low density polyethylene and plastomer in an amount of up to about 40%.

13. The stretch film as claimed in claim 1, wherein the cling layer includes ultra low density polyethylene that is an ethylene copolymerized with a C<sub>3</sub>-C<sub>10</sub> α-olefin, with a density from about 0.850 g/cm<sup>3</sup> to 0.900 g/cm<sup>3</sup> and a melt index of 1.0 g/10 min to 20.0 g/10 min.

14. A multilayer stretch film comprising:
- a cling layer,
- a non-cling layer,
- at least one core layer including linear low density polyethylene and low density polyethylene in an amount less than 3% by weight of the core layer.
15. The stretch film as claimed in claim 14, wherein the stretch film has a gauge that is no greater than about 90 gauge.
16. The stretch film as claimed in claim 14, wherein the stretch film has a gauge that is no greater than about 80 gauge.
17. The stretch film as claimed in claim 14, wherein the stretch film has a gauge that ranges from about 50 gauge to about 80 gauge.

18. A multilayer stretch film comprising:
- a cling layer,
  - a non-cling layer,
- at least one core layer including linear low density polyethylene and low density polyethylene in an amount ranging from about 0.01% to about 3% by weight of the core layer,
- wherein the stretch film has a gauge that ranges from about 45 gauge to about 90 gauge.
19. The stretch film as claimed in claim 18, wherein the stretch film has a gauge that ranges from about 50 gauge to about 80 gauge.
20. The stretch film as claimed in claim 18, wherein the low density polyethylene of the at least one core layer is included in an amount less than 3% by weight of the core layer.

21) A stretch film comprising:

a core layer formed with linear low density polyethylene and low density polyethylene in an amount ranging from about 0.01% to about 3% by weight of the core layer,

a cling layer formed with ultra low density polyethylene and plastomer in an amount ranging from about 15% to about 20% by weight of the cling layer,

a non-cling layer of polypropylene.

22. The stretch film as claimed in claim 21, wherein the low density polyethylene of the at least one core layer is included in an amount less than 3% by weight of the core layer.

23. The stretch film as claimed in claim 21, wherein the stretch film has a gauge that ranges from about 45 gauge to about 90 gauge.